- After a recap of generative chemistries and the DPO approach, we will discuss i.) the ILP formulation for autocatalysis, ii.) (sub-)graph isomorphism (Ullmann's algorithms) and iii.) graph canonicalization. Also, I'll introduce you to the strategy framework of `mød`.

- Mandatory Reading:
  - Main source of information: Chapter 4 of the PhD thesis by Jakob Lykke Andersen.
- Highly Recommended Reading if you are more interested:
  - Jakob L. Andersen, Daniel Merkle. *A Generic Framework for Engineering Graph Canonization Algorithms.* Journal of Experimental Algorithms, 2019 (in press). (This is the journal version of the proceedings paper of the Twentieth Workshop on Algorithm Engineering and Experiments (ALENEX, 2018)) `https://epubs.siam.org/doi/abs/10.1137/1.9781611975055.13`
  - Source Code related to the article:
    * `https://github.com/jakobandersen/graph_canon`
    * `https://github.com/jakobandersen/perm_group`
    * `https://github.com/jakobandersen/graph_canon_vis`
  - McKay, B.D. and Piperno, A., Practical Graph Isomorphism, II, Journal of Symbolic Computation, 60 (2014), pp.94-112.
  - S. G. Hartke and A. Radcliffe. *McKay's canonical graph labeling algorithm.* In Communicating Mathematics, volume 479 of Contemporary Mathematics, pages 99-111. American Mathematical Society, (2009). This article contains the example for the handwritten notes.